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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/777,687	02/13/2004	Wolfgang Geiger	32860-000689/US	5884
	7590 05/31/200 CKEY & PIERCE, P.L	EXAMINER		
P.O.BOX 8910		BOWERS, NATHAN ANDREW		
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			1744	
			MAIL DATE	DELIVERY MODE
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

							
	•	Application No.	Applicant(s)				
Office Action Summary		10/777,687	GEIGER, WOLFGANG				
		Examiner	Art Unit				
		Nathan A. Bowers	1744				
Period fo	The MAILING DATE of this communication a or Reply	ppears on the cover sheet w	ith the correspondence address				
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF CHEVER IS LONGER, FROM THE MAILING nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period tre to reply within the set or extended period for reply will, by state reply received by the Office later than three months after the maded patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a od will apply and will expire SIX (6) MO tute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status							
1)	Responsive to communication(s) filed on 13	February 2007.					
2a) <u></u> ☐	This action is FINAL. 2b)⊠ This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)	Claim(s) <u>1-20</u> is/are pending in the application 4a) Of the above claim(s) is/are with definition Claim(s) is/are allowed. Claim(s) <u>1-20</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and	rawn from consideration.					
Applicat	ion Papers	·					
10)⊠	The specification is objected to by the Examination The drawing(s) filed on <u>13 February 2007</u> is Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct oath or declaration is objected to by the	are: a) \boxtimes accepted or b) \square he drawing(s) be held in abeya ection is required if the drawing	nnce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d).				
Priority (under 35 U.S.C. § 119						
12)⊠ a)	Acknowledgment is made of a claim for forei All b) Some * c) None of: 1. Certified copies of the priority docume 2. Certified copies of the priority docume 3. Copies of the certified copies of the priority docume application from the International Bure See the attached detailed Office action for a light	ents have been received. ents have been received in a riority documents have been eau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 021304 100404	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application				

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1) Claims 1-20 are rejected under 35 U.S.C. 102(b) as being anticipated by Kluttz (US 6410275).

With respect to claims 1, 6, 7, 11, 16-18 and 20, Kluttz discloses an analytical and diagnostic instrument comprising an analysis chip for testing biological material. The analysis chip includes a carrier (Figure 1:10) and a biosensor contained within dual reaction chambers (Figure 1:12). Each of these reaction chambers includes an opening at the top of the carrier that is capable of functioning as either an inlet or an outlet. Construction of the carrier is described in column 7, line 49 to column 8, line 42. Column 6, line 61 to column 7, line 10 indicates that wells (Figure 1:13) are additionally provided as disinfection devices for the application of a disinfection fluid to the reaction chambers. Column 4, lines 5-8 state that the wells are also used to optically detect reaction products and to classify the contents of the reaction solution.

With respect to claims 2, 3, 12, 13 and 19, Kluttz discloses the apparatuses in claims 1, 11 and 18 wherein the disinfection device is designed as a disposable adapter system connectable to the analysis chip. Clearly, the wells (Figure 1:13) that comprise the disinfection fluid and the detection areas are connected to the reaction chambers.

Furthermore, the apparatus of Kluttz is fully capable of being disposed after use or saved to be re-used later.

With respect to claims 4 and 14, Kluttz discloses the apparatus in claims 3 and 13 wherein the disinfection device is further for reading the analysis chip. As previously indicated, column 4, lines 5-8 state that the wells are also used to optically detect reaction products and to classify the contents of the reaction solution. This is further reflected in claim 19, which describes the use of a detection well.

With respect to claims 5, 8-10 and 15, Kluttz discloses the apparatuses in claims 1, 2, 3, 4 and 11 wherein the disinfection device is comprised of a plurality of adjacent wells (Figure 1:13). These wells are fully capable of holding disinfection fluid, acting as a storage vessel, and serving as a collecting vessel.

2) Claims 6, 7, 16 and 17 are rejected under 35 U.S.C. 102(b) as being anticipated by Doung (US 20020177135).

Doung discloses an analytical and diagnostic apparatus comprising an analysis means for testing biological material. The analysis means includes a carrier in the form of a substrate, and a biosensor in the form of a hybridization array. This is described in paragraphs [0030]-[0033] and in various places throughout the reference. Doung further states in paragraph [0326] that a disinfection device in the form of a thermocontroller is provided for disinfecting the analysis chip. Doung teaches that reaction products are optically detected in order to classify the contents of the reaction solution.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3) Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over unpatentable over Patno (US 20030224505) in view of Kureshy (US 20050170356) and/or Kluttz (US 6410275).

Patno discloses an analytical and diagnostic instrument comprising an analysis chip (Figure 7:20) including a carrier and a biosensor. The chip is serviced by a cover (Figure 7:62) comprising plurality of openings that are fully capable of being used as inlets and outlets. This is described in column 6, line 3 to column 9, line 49. Column 18, lines 42-67 states that the buffers, probe solutions, and sample solutions are added to the analysis chip using manual or automated pipettes. Patno, however, does not indicate that the pipetting system is used to deliver a disinfection fluid to the analytical chip.

Kureshy discloses an analytical device comprising an automated pipette system capable of transferring various reagents (Figure 2:210) to an analytical chip. This is disclosed in paragraph [0025]. Paragraph [0027] states that disinfection fluids, such as bleach, are added to the chip to accomplish decontamination prior to disposal.

Kluttz discloses the apparatus as previously described above. Column 6, line 61 to column 7, line 10 indicates that wells (Figure 1:13) are provided as disinfection devices for the application of a disinfection fluid to the reaction chambers.

Patno, Kureshy and Kluttz are analogous art because they are from the same field of endeavor regarding reagent addition to an analysis chip.

At the time of the invention, it would have been obvious to utilize the reagent transfer system of Patno to deliver a disinfection fluid to the analysis chip. Kureshy and

Kluttz each teach that the use of decontamination fluids prior to disposal are beneficial because they ensure that the chip is safe to discard. The pipetting system of Patno is fully capable of accommodating a disinfection fluid, especially since disinfection fluids such as bleach are well known in the art.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan A. Bowers whose telephone number is (571) 272-8613. The examiner can normally be reached on Monday-Friday 8 AM to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gladys Corcoran can be reached on (571) 272-1214. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NAB

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EXAMINER